

We claim:

1. A digital projector comprising:

an input receiving digital data defining image frames; and

an optical modulator adapted to generate a series of images corresponding to said digital data, said images being separated by black intervals selected to induce a stroboscopic effect in the eye of a viewer.

2. The projector of claim 1 wherein said series of images includes a sequence of frames, said optical modulator generating said sequence of frames.

3. The projector of claim 2 wherein said optical modulator is adapted to generate at least one black interval for each frame.

4. The projector of claim 1 wherein said black intervals have a duration in the range of 1-20 msec.

5. The projector of claim 1 wherein said optical modulator is adapted to produce images defined by frames characterized by a frame duration, wherein said blink interval is at least 50% of said frame duration.

6. A digital projector adapted to generate moving images from a stream of data arranged in digital frames, said projector comprising:

an input adapted to receive said stream of data;

a timer adapted to generate blink signals in synchronism with said digital

frames, said blink signals being adapted to define a black interval adapted to induce a stroboscopic effect in a viewer's eye; and

an optical image generator adapted to generate a sequence of optical images corresponding to said sequence of digital frames, said optical images being separated by said black intervals.

7. The projector of claim 6 wherein said optical image generator does not emit any light during said black intervals.

8. The projector of claim 6 wherein said optical images are generated during frames having frame durations, and wherein said black intervals at least 50% of said frame durations.

9. The projector of claim 6 further comprising a light source generating light and an optical modulator receiving said light and modulating said light in accordance with digital frames to form images.

10. The projector of claim 9 further comprising a mixer adapted to generate control signals for said optical modulator in accordance with said digital frames and said blink signals.

11. The projector of claim 10 wherein said mixer is adapted to generate modified frames, each frame including a black interval and data from one of said digital frames.

Sub A4
12. A method of generating moving images from data comprising :

generating blink signals defining black intervals selected to induce a stroboscopic effect in the eyes of a viewer;

converting said data into images; and

projecting said images on a screen with said images being separated by said black intervals.

13. The method of claim 12 wherein no light is projected during said black intervals.

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14. The method of claim 11 further comprising defining frames having frame durations that define the rate at which said images are projected.

15. The method of claim 14 wherein said black intervals at least 50% of said frame durations.

16. The method of claim 11 wherein said data is partitioned into digital frames, the data of each frame defining a corresponding image, and wherein one black interval is associated with each digital frame.

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